

Notice of Allowability

Application No.

09/942,638

Examiner

Phuong Phu

Applicant(s)

JUNG, WOON JIN

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 3/24/05.
2. ☒ The allowed claim(s) is/are 1-18 and 20.
3. ☒ The drawings filed on 31 August 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

This Office Action is responsive to the Amendment filed on 3/24/05.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David Oren, the applicant's representative, on 05/31/05.

The application has been amended as follows:

IN THE CLAIMS:

-In claim 18, line 8, the phrase --, wherein the modulation sequence device outputs a mode-value signal indicative of an amplitude level of the digital signal and a mode-slope signal indicative of a positive direction or a negative direction of the digital signal-- has been added after the limitation "amplitude of the digital signal".

-Claim 19 has been cancelled.

-In claim 20, line 1, the limitation "The apparatus of claim 19" has been replaced by the phrase -- The apparatus of claim 18--.

REASONS FOR ALLOWANCE

2. Claims 1-18 and 20 are allowed.

3. The following is an examiner's statement of reasons for allowance:

References 5835543, 4996698, 6819727 and 6064706 are additionally cited because they are pertinent to the claimed invention.

-Regarding to independent claim 1, none of prior art of record teaches or suggests a jitter reducing apparatus, as claimed. Reilly et al (5,311,511), previously cited, fails to teach the limitation “a modulation sequence that outputs signals representative of a digital signal wave having a constant period and amplitude, wherein the output signals include a signal indicative of an amplitude of the digital signal wave and a signal indicative of a direction of the digital signal wave; and a phase detector that controls the pattern generator based on the signals output from the modulation sequencer”, in combinations with other limitations recited in the claim. It would not have been obvious for a person skilled in the art to implement Reilly et al in view of other prior art of record for leading such an implementation to the claimed invention.

-Regarding to independent claim 11, none of prior art of record teaches or suggests an apparatus, as claimed, wherein the apparatus comprises a modulation sequencer to output signals representative of a digital signal wave to a phase level device, the output signals including at least an amplitude signal and a slope signal, in combinations with other limitations recited in the claim.

-Regarding to independent claim 18, none of prior art of record teaches or suggests an apparatus, as claimed, wherein the apparatus comprises, in combinations with other limitation recited in the claim, a modulation sequencer and a device to receive the signals output from the modulation sequence device and to control a data read speed from a elastic store device, wherein the signals output from the modulation sequencer device includes signals indicative of a slope of a digital signal or an amplitude of the digital signal, wherein the modulation sequencer device

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outputs a mode-value signal indicative of an amplitude level of the digital signal and a mode-slope signal indicative of a positive or a negative direction of the digital signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu
Phuong Phu
05/31/05

PHUONG PHU
PRIMARY EXAMINER

Phuong Phu
Primary Examiner
Art Unit 2631